

ABSTRACT

A method for improving real-time video communications using a Foveation-based unequal error protection scheme (UEP) and error resilience. In a preferred embodiment of the present invention, a real time processing module
5 partitions a video image into at least two data bit stream signals based on a directional pointing device or a pattern filter definition of "areas of importance." These different data bit stream signals are then processed via different algorithms based on the importance of correcting errors in the data signals. The data is then transmitted. After reception at a receiving device, the data signals
10 are regenerated and corrected to their original form.